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**Automotive Industry.** By far, the main use of Mechanical **Simulation** products is in ... Vehicle parameters, advanced **electronic** chassis controls, ... New control strategies for drive-**by-wire** systems, can even be downloaded using the web. ...

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For evaluations, the **simulation** models were developed by using a discrete event **simulation** ... Motor car ; Transmission protocol ; **Automotive electronics** ; ...  
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3. [Fault Diagnostics in Power \*\*Electronics\*\* Based Brake-\*\*by-Wire\*\* System.](#)

**BRAKE-BY-WIRE** EXPERIMENTAL AND **SIMULATION** STUDIES. In order to verify the brake-**by-wire** model motor and power **electronic** circuit behavior described in the ...

[ieeexplore.ieee.org/iel5/10416/33078/01554615.pdf](http://ieeexplore.ieee.org/iel5/10416/33078/01554615.pdf)

4. [Development of the \*\*electronic\*\* control unit for the rack-actuating ...](#)

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Development of the **electronic** control unit for the rack-actuating steer-**by-wire** using the hardware-in-the-loop **simulation** system ...

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5. [Brake-\*\*by-wire\*\* - Wikipedia, the free encyclopedia](#)

Brake-**by-wire** technology is still under development by some **automobile** and **automotive** ... The **electronic** control unit must always be informed of the driver's intentions to .... Lee, Y., Lee, W.S., Hardware-in-the-loop **simulation** for ...

[en.wikipedia.org/wiki/Brake-by-wire](http://en.wikipedia.org/wiki/Brake-by-wire) - [Cached](#) - [Similar](#)

6. [SIMPLIFIED PORTABLE IN-THE-VEHICLE ROAD \*\*SIMULATOR\*\* - Patent application](#)

The portable **simulation** system is a computer-based driving **simulator**, which uses an actual drive-**by-wire** vehicle as an input device, and a portable display ...

[www.faqs.org/patents/app/20090011389](http://www.faqs.org/patents/app/20090011389) - Cached

## 7. The Design of a Controller for the Steer-by-Wire System

by SW OH - 2004 - Cited by 8 - Related articles

and Han, C.-S., **Electronic** Control Unit for the. Steer-by-Wire System Using a Hardware-in-the-Loop-  
**Simulation** System, FISITA 2002 World **Automotive** ...

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## 8. A study on the brake-by-wire system using hardware-in-the-loop ...

by K Park - 2004 - Cited by 6 - Related articles

A study on the brake-**by-wire** system using hardware-in-the-loop **simulation**. Kihong Park\* and Seung-Jin Heo.  
Graduate School of **Automotive** Engineering, ...

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## 9. X-By-Wire Automotive Systems - SAE BOOKSTORE

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Now retired, he is the editor of the **Automotive Electronics** Handbook and the Digital Consumer ... X-**By-Wire**  
**Automotive** Systems. ISBN: 978-0-7680-2100-4 ...

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## 10. Model Based Controller Design for Automotive Electronic Throttle

by R Grepf

pedal and throttle is replaced by "drive-**by wire**" solution – pedal sensor and rotary ... Schema and photograph of  
**automotive electronic** throttle. Fig. 2. Overview of Real-Time **simulation**/computation techniques in the context  
of model ...

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WJ Daily, B Towles - Proceedings of the 38th Design ..., 1910 - doi.ieeecomputersociety.org

... distances across the chip. These **wires** are typically laid out by an **auto-router** late in the **design**. The continued viability of this methodology is challenged by several difficult **electrical** problems. First, unstructured **wires** have ...

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## An exact zero-skew clock routing algorithm

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RS Tsay - ... on Computer-Aided Design of Integrated Circuits ..., 1993 - nthur.lib.nthu.edu.tw

... Many heuristics for **clock routing** have been proposed in the past. H-tree structures [1], [4], [10], [7] are the most widely used, especially in systolic array **designs**. A ... 1 Page 4. TSAY: EXACT ZERO SKEW CLOCK ROUTING ALGORITHM +,a C,d2+ i...+% i - - " - ... 245 wire 1 p ...

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## Integrated electric design system with automatic constraint satisfaction

SM Rubin - US Patent 5,050,091, 1991 - Google Patents

... 5 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS Introduction The invention provides an **electrical** circuit **auto-** 10 mated **design** system which integrates any desired number of analysis and synthesis tools with multiple and mixed technologies. ...

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## FPGA routing architecture: segmentation and buffering to optimize speed and ...

[psu.edu \[PDF\]](#)

V Betz, J Rose - Proceedings of the 1999 ACM/SIGDA seventh ..., 1999 - portal.acm.org

... Vaughn Betz and Jonathan Rose Department of Electrical and Computer Engineering, University of Toronto ... **Routing** architecture **design** is very challenging because the best value for each of the ... of routing switches is dependent on the length of the FPGA's **routing wire** segments ...

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## [PDF] Automated **design** tool execution in the Ulysses **design** environment

[rutgers.edu \[PDF\]](#)

M Bushnell, SW Director - ... on Computer-Aided Design, 1989 - caip.rutgers.edu

... integration of CAD tools into what may be viewed as a **design auto-** mation system. ... M. Bushnell

is with CAIP Research Center, Department of **Electrical** and Computer Engineering, Rutgers ... for handling some problems that prevent knowledge sources from satisfying **design** goals ...

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### The complexity of **design** automation problems

[psu.edu \(PDF\)](#)

S Sahni, A Bhatt - Proceedings of the 17th conference on Design ..., 1980 - portal.acm.org

... (2) Number of **electrical** connections between subassemblies [LWL62],[HABA68], (3) Maximum delay through the circuit [LEWL69]. ... No two **wires** may intersect. ... as a result of this, this paper will be concerned mainly with the worst case complexity of **design** automation problems. ...

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..., DG Bechtner, R Wiese, TH Hubing - 2002 IEEE ..., 2002 - scholarsmine.mst.edu

... this file to best fit his experience, so the expert system may evolve with the **automotive design** process ... The raw **design** data in the local database, the module library, and EMC personality file is ... The algorithm will then assign **electrical** characteristics to each of these nets or circuits ...

Cited by 14 - Related articles - All 3 versions

### Load current management system for **automotive** vehicles

WM Floyd, DL Juszwik - US Patent 4,639,609, 1987 - Google Patents

... for recognizing such intervals of ex- the ergonomic aspects of the **input** switch **design** as well ... 65 required, importance to operation of vehicle, and ex- to provide an **electrical** power delivery ... a pected duration of operation of the load, vehicle, such as an **automobile**, which allows ...

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SS Kang, M Sehyun, SH Hah - Journal of Ship Production, 1999 - icad.kaist.ac.kr

... and bilge discharge system, a fire and wash deck system, and an **electric** cable pipe system ... and Zwolinski, M., "Lee Router Modified for Global Routing," Computer Aided Design, 22:5 ... 3 Lee, Soo-Hong, "An Agent-based System for **Automotive** Wiring (in Korean)," Transactions of ...

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### Method for physical VLSI-chip **design**

K Klein, K Pollmann, H Schettler, U Schultz, OM ... - US Patent ..., 1989 - Google Patents

... on the chip is logically divided into partitions that are manageable by the present **auto-** matic **design** ... is divided into several partitions and contains a high number of **electrical** elements as ... The physical **design** process covers the placement To overcome the need for global **wiring** ...

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NJ Boden, D Cohen, RE Felderman, AE Kulawik, CL ... - IEEE micro, 1995 - Citeseer

... and a specialized version of the MCP handles the optical-fiber interface's **electrical** Myrinet port, and ... L. Seitz, Nanette J. Boden, Jakov Seizovic, Wen-King Su, "The **Design** of the ... Chapter five in Developments in Concurrency and Communication, edited by CAR Hoare, Addison ...[Cited by 2079](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 27 versions](#)[\[PDF\] Networks on chips: A new SoC paradigm](#)[psu.edu \[PDF\]](#)

L Benini, G De Micheli - Computer, 2002 - Citeseer

... the commercial development of several physical **design** tools to support **auto-** mated **wiring**. ... When using current technologies, most chip developers assume that **electrical** waveforms always carry ... optimization and compactness while the other end favors ease of **design** and fast ...[Cited by 1524](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 47 versions](#)[\[PDF\] Hardware-software co-design of embedded systems](#)[tkk.fi \[PDF\]](#)

WH Wolf - Proceedings of the IEEE, 1994 - users.tkk.fi

... The author is with the Department of **Electrical** Engineering, Princeton University, Princeton, NJ 08544 ... just as the back-of-the-envelope calculations for automobile and aircraft ... decomposition of function into modules is an intermediate step in **software design**, which proceeds to ...[Cited by 364](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)[42 V—An indication for changing requirements on the vehicle \*\*electrical\*\* system](#)

K Ehlers, HD Hartmann, E Meissner - Journal of Power Sources, 2001 - Elsevier

... mechanical instrumentation develops into a system diagnostics facility which, as a central system function, additionally initiates and controls the structure, testing and possibly also the dismantling of the **electrical** system in the car (Fig ... With appropriate **design**, grouping vertical ...[Cited by 3](#) - [Related articles](#) - [All 3 versions](#)[\[PDF\] ... Project- Centralized Versus Distributed Redundancy for Brake-By-Wire ...](#)[lth.se \[PDF\]](#)

NA Kelling, W Heck - 2002 - control.lth.se

... **Design** of safety architectures that exploit the inherent redundancy of braking systems to

significantly lower the system cost while at the ... respects the ideas and requirements of different global players to make it an open standard for **automotive** industry ... Optical or **Electrical Buses** ...

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### Design considerations in Boeing 777 fly-by-wire computers

Y Yeh - Proceedings of the Third IEEE International ..., 1998 - doi.ieeecomputersociety.org

... **AUTO OFF** ... In general, the electronics components powered by the L/C/R flight **control electrical** bus controls the actuation components powered by the ... a) i) Requirement errors b) ii) Implementation misunderstanding c) **Software design** or coding error d) Future process errors ...

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### Accelerating Boolean satisfiability with configurable hardware

P Zhong, M Martonosi, P Ashar, S ... - In IEEE Symposium on ..., 1998 - eprints.klupm.edu.sa

... Department of **Electrical Engineering**, Princeton University NEC CCRL ... Start- ing from a general template **design**, our approach **auto-** matically generates VHDL for a circuit that is specic to the particular Boolean formula ... The system accepts structural Verilog as **design** in- put. ...

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G Berry, CAR Hoare, WA Hunt - Philosophical Transactions: Physical ..., 1992 - jstor.org

... modification simplifies the cell **design** and the implementation of signal boolean expressions. ... nothing end would be incorrect since it would involve an unstable **electrical** loop through the parallel ... In all cases, logic duplication concerns only **control wires** and synchronizers. ...

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R Rutenbar, TN Mudge, DE Atkins - ... on Computer-Aided Design, 1984 - ece.iastate.edu

... The authors are with the Department of **Electrical Engineering** and Computer Science, and the Computing ... to adjacent inter- changes enables each node to compute the change in **wire** length from ... Statelessness is a **design** choice, and is not fundamental to RPS organizations. ...

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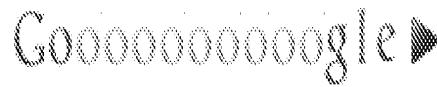
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### Reconfigurable computing: a survey of systems and **software**

K Compton, S Hauck - ACM Computing Surveys (CSUR), 2002 - portal.acm.org

... 3118; e-mail: kati@ece.northwestern.edu; S. Hauck, De- partment of **Electrical Engineering**, The ... Like PALs, FPGAs are fully electrically programmable, meaning that the physical **design** costs are amortized over ... with a true value, allowing a signal to flow from one **wire** to another ...

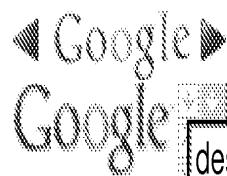
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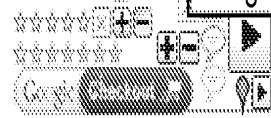
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diate model of computation (Extended **Finite State Machines**) and derives both hardware and ... entire **design** flow, from high-level **specification** to hardware and .... ports on the register file limits the **input/output** bandwidth of the. FPGA array. ... Our goal is to automatically **partition hardware** and **software** and ...

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For instance, a **finite** impulse response filter can be implemented either as an inner product or using .... The **input specification** is transformed into a set of constraints that is ... **software partitioning** problem in system-level **design**. ..... **Output** : **mapping**  $M_i$  ( . ), implementation bin  $B_i^*$ , and start time  $t_i$  ...

[citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.49.7809&rep...](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.49.7809&rep...)

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System-level modeling consisting of a functional **specification** plus modeling of the timing .... **Software** tools that perform or support **hardware/ software partitioning**, ... An **input**, **output**, or bidirectional buffer cell used to connect **design** .... EDA **software** tools that analyze **electrical** signal behavior of **wiring** ...

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JA Rowson, A Sangiovanni-Vincentelli - ... conference on Design ..., 1997 - portal.acm.org

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G Leen, D Heffernan, A Dunne - Computing and Control ..., 1999 - nicozone.free.fr

... OSEK/VDX aims to specify a standardised interface to allow the gelling together of **hardware** modules, network protocols and application **software** in a co-ordinated and intelligent fashion.Design Specification Implementation TEST Analyses & **Design** A ...[Cited by 69 - Related articles - View as HTML - BL Direct - All 6 versions](#)

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... One end of the spectrum favors **software** optimization and compactness while the other end favors ease of **design** and fast turnaround time. ... The system **software** provides an abstraction of the underlying **hardware** platform. ... The system **software** can control the information flow ...[Cited by 1624 - Related articles - View as HTML - BL Direct - All 47 versions](#)

## Hardware monitoring of a multiprocessor system

AC Liu, R Parthasarathi - IEEE Micro, 1989 - doi.ieeecomputersociety.org

... probes that detect events. **Hardware** monitors, on the other hand, are **electronic** devices connected ...While **software** monitors function at a logical level, their **hardware** counterparts work at a ...Testability-an essential part of any **hardware design**-is imperative to the determination of ...[Cited by 15 - Related articles - All 5 versions](#)

## Time-triggered architecture: a consistent computing platform

R Maier, G Bauer, G Stöger, S Poledna - IEEE MICRO, 2002 - doi.ieeecomputersociety.org

... One of the main philosophies behind TTP/C **design** is that the protocol should transmit ... for the

large body of CAN-based **software** without requiring substantial **software** rewrites. ... We have evaluated a **hardware-based** CAN emulation, which is register compatible with widely used ...

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D Panigrahi, CN Taylor, S Dey - Proceedings of 5th IEEE HLDVT ..., 2000 - Citeseer

... of generality, a SoC consists of different types of components, such as **hardware** cores, processor ... cores running **software**, and/or programmable logic cores, and one or more communication ... The integration of components in a SoC involves **design-** ing proper physical interfaces ...

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**Design environment and a design method for hardware/software co-design**

K Van Rompaey, D Verkest, J Vanhoof, B Lin, I ... - US Patent ..., 1999 - Google Patents

... 1996, pp. 1-30. De Man et al., "Co-Design of DSP Systems," presented at NATO Advanced Study

Institute on **Hardware/Software Co-Design**, Jun. 1995, pp. 1-54. Berrebi, E., et al. (1996)

Combined **control** flow dominated and data flow dominated high-level synthesis. ...

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F Baumberger, H Efferling, G Kreissig, D Metz, J ... - IBM Journal of ..., 2002 - Citeseer

... Another attribute of the new z900 **control** structure is that, by using a high-end Power-PC- embedded controller, state-of-the-art **software** engineering techniques such ... Object-oriented **design**

While examining the physical structure of the controlled **hardware**, the use of ...

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H Kalte, M Pommann, U Rückert - Proceedings of the IEEE Workshop ..., 2002

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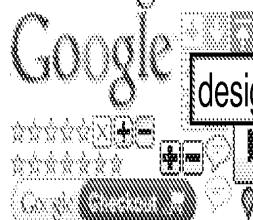
... manual coding remains necessary for the integration of operating system or **hardware** specifics. ... community and is respected as a stan- dard in object-oriented **software** development. ...

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### 1. Physical layer is key in LIN designs

The LIN bus is a **single-wire** bus connected via a termination resistor to the positive ... In case of **master** node assignment, **slave** nodes have no predefined ... reduces the load on the microprocessor in the **electronic control unit** (ECU). ... is straightforward, since **hardware** and **software designs** are modularly ...

[www.eetasia.com/ART\\_8800523106\\_499495\\_NT\\_acb33845.HTM](http://www.eetasia.com/ART_8800523106_499495_NT_acb33845.HTM) - Cached - Similar

### 2. LIN networks meet embedded **design** challenges | John Day's ...

Sep 3, 2009 ... Single **Master/Multiple Slave** Concept - No arbitration required ... The main cost savings of LIN versus CAN are derived from the **single-wire** transmission, the low cost of implementation as **hardware** or **software** in silicon, ... of distributed networks with their associated **electronic control units**. ...

[johndayautomotiveelectronics.com/?p=611](http://johndayautomotiveelectronics.com/?p=611) - Cached

### 3. Integrating sensor devices in a LIN bus network - Electronics ...

by C Gabriel - 2003 - Cited by 5 - Related articles

... implies the addition of specific **hardware** to the sensor **design** or, additional **software** leading to significant CPU overhead (40% or .... microcontroller-based **electronic control units** (ECUs) ... by using the same **hardware** for both **master** and **slave** devices. ... **wiring** to less expensive multidrop cabling, realizing ...

[ieeexplore.ieee.org/ei5/8909/28167/01260504.pdf?arnumber=1260504](http://ieeexplore.ieee.org/ei5/8909/28167/01260504.pdf?arnumber=1260504)

### 4. System-On-a-Chip Design of Electronic Control Unit for Car Body ...

by L Hong-qiang - 2007 - Related articles

Furthermore **electronic control units** (ECUs) support drivers .... it is a **master** or **slave** component and information of all I/O ports of the component. ...

[ieeexplore.ieee.org/ei5/4456352/4456353/04456362.pdf?arnumber...](http://ieeexplore.ieee.org/ei5/4456352/4456353/04456362.pdf?arnumber...)

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5. [PDF] Resistance Is Futile—Electronics Are on the Rise [Electronic...](#)

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**Electronic control units** are an established part of today's vehicles and ... amount of complexity in a vehicle's **wiring** harness, the in-vehicle .... Interestingly, it is expected that a **master/slave** architecture will be implemented for the .... **hardware** and **software** suppliers to build products tailored to the ...

[www.ihsglobalinsight.com/gcpa/Path/Electronics.pdf](http://www.ihsglobalinsight.com/gcpa/Path/Electronics.pdf) - [Similar](#)

6. [Siemens Electronics, Hardware/Software Test Systems](#)

**Hardware** Engineering. Printed Circuit **Design** - Proteus / Cadstar ... CAN networks used in engine management connect several ECUs (**electronic control units**). ... These multiplex networks link door and roof control units as well as lighting control ... a **single-master/multiple-slave** concept, a **single-wire** 12V bus, ...

[www.wmccm.co.uk/WMCCM/DesktopDefault.aspx?tabindex=2...](http://www.wmccm.co.uk/WMCCM/DesktopDefault.aspx?tabindex=2...) - [Cached](#)

7. [Embedded.com - Understanding the LIN PHY \(physical\) layer](#)

Jan 28, 2008 ... LIN's lower cost results from the use of **single-wire** communications ... In the case of **master** node assignment, **slave** nodes have no pre-defined ... reduces the load on the microprocessor in the ECU (**Electronic Control Unit**). ... since **hardware** and **software designs** are modularly extended, with minimal ...

[www.embedded.com](http://www.embedded.com/columns) > Columns - [Cached](#)

8. [Automobile information system - US Patent 6434459 Description](#)

While these various **electronic control units** have proven useful, .... In a **master/slave** architecture, the master control unit 24 acts as the master of the primary ... In traditional prior art systems, dedicated **wiring** is required for one ... of **software** applications and **hardware** peripherals on the support bus 30. ...

[www.patentstorm.us/patents/6434459/description.html](http://www.patentstorm.us/patents/6434459/description.html)

9. [Communications Standard Drives Development Of Vehicle Networks](#)

These assemblies used to be directly controlled by **wires** and switches. ... It's a **single-master** and **multiple-slave** protocol transmitted over a **single-wire** bus ... With LIN, **hardware** required to interface an **electronic control unit** to ... Volcano Communications Technologies will offer development tools and **software** ...

[electronicdesign.com/.../communications-standard-drives-development-of-veh...](http://www.electronicdesign.com/.../communications-standard-drives-development-of-veh...) - [Cached](#)

## 10. Failure Management Development for Integrated Automotive Safety ...

by H Kimm - 2009 - [Related articles](#)

via more than 50 **Electronic Control Units (ECUs)**, sensors and ... **master-slave** bus system. With LIN, message frames are sent at the speed of 20 Kbps. A single **wire** is used as the physical medium to exchange signals. .... performance, where system represents **hardware**, **software** or a process [3]. ...

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## 11. Book results for design hardware software electronic control units wires master slave

[Hardware software Co design of Embedded ...](#) - Felice Balarin, Paolo Di Giusto, Attila ... - 323 pages

[Platform Based Design at the Electronic System ...](#) - Mark Burton, Adam Morawiec - 105 pages

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## System design: Traditional concepts and new paradigms

[kfupm.edu.sa \[PDF\]](#)

A Ferrari - In International Conference on Computer Design, 1999 - [eprints.kfupm.edu.sa](#)

... The I/O dimension is a projection of a very complex space where characteristics such as number of digital I/Os, number of PWM channels, number of A/D converters, number of **input** captures and **output** Page 7. ... **System Design Space Exploration Specification** ...

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## [PDF] Integrated wiring system for construction equipment

[pusan.ac.kr \[PDF\]](#)

JM Lee, S Lee, MH Lee, KS ... - [IEEE ASME ...](#), 1999 - [robotics.ee.pusan.ac.kr](#)

... compute control signals based on the command, eg, engine management **electronic control unit** (ECU) and ... **Conceptual Design of Integrated Wiring System** A. **Conceptual Design** An integrated wiring ... the status of the **input** signals from the attached **electric** components; • analog ...

[Cited by 9](#) - [Related articles](#) - [BL Direct](#) - [All 13 versions](#)

## Electrical control system for pneumatic brakes

A Maskery - US Patent 3,970,348, 1976 - [Google Patents](#)

... device of form known in the art moreover that in this example the emergency train line which amplifies an **electrical** signal in ... For ease of **design** the monosta- valve ... The outputs of the A block diagram of the basic **electronic control unit** 55 oscillators are mixed in a mixer formed by ...

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## Digital interface of an electrostatic power supply and turbine speed controller

JB Hamilton, JH Long - US Patent App. 09/755,790, 2001 - [Google Patents](#)

... There is also a possibility for extraneous **electrical** or electromagnetic interference (EMI) with the ... environment to an analog- to-digital converter which is located within the **electronic control unit**. ... Further, features and **design** alternatives that would be obvious to one of ordinary ...

[All 2 versions](#)

## Installation of Subsea Trees in Roncador Field, at 1800m Water Depth Using the ...

J Moreira, T Johansen - Offshore Technology Conference, 2001 - [onepetro.org](#)

... FMC Kongsberg Subsea is about to **design** and manufacture this unit and modify the ... to the subsea

control module through a silicon oil filled **electrical** jumper and ... in the superimposed communication between the subsea control module and the topside **electronic control unit** ...

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### Electronic apparatus for producing variable spectral output

KP McGuire, RE Hagerman - US Patent 5,569,983, 1996 - Google Patents

... of each of these US patents is hereby incorporated by reference into this **specification**. ... the color temperature of the individual sources, which apparatus is an **electronic control unit** and may ... stores, on the counters of cosmetic departments of department stores, in **design** studios ...

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### Clutch slip control device and method of manufacturing the same, clutch slip ...

K Kono, H Ito, K Fukumura, S Nakamura, M ... - US Patent ..., 1998 - Google Patents

... 15 Frequency (rad/sec) 0) k\_O) 0 « -200 •o \*\*s <u -400 c -600 **DESIGN** " MODEL GO , PERTURBED MODEL G Frequency(rad/sec) Page 12. ... 17 P (s) EXOGENOUS INPUTS u: PLANT INPUT z: CONTROL QUANTITIES PLANT OUTPUT Fig. 26 Augmented Plant , dl ...

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### Control method for switched reluctance motor

Y Sozer, DA Torrey, E Mese - US Patent App. 10/109,005, 2002 - Google Patents

... It is necessary to cope with these conditions using good engineering practice and **design**. ... automobile vehicle or other article/machine, a motor controller 6 electrically connected with the SR motor 10 and an **electric** storage battery 8, and an **electronic control unit** 7 of ...

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### The university of Missouri-Rolla, absolute Aitken nucleus counter

JL Schmitt, JL Kassner Jr, J Podzimek - Journal of Aerosol Science, 1982 - Elsevier

... temperature of the gas is steadily decreasing which is equivalent to applying a steady **electrical** input to the ... The chamber is operated by an **electronic control unit** that allows fully automatic operation. ... 5. The **design** of this valve is such that the air passing through its orifice goes ...

[Cited by 4](#)

### High-speed release system

HC Eeters - US Patent 2,402,580, 1946 - Google Patents

... applied to an aerial camera, Including a schematic **wiring** diagram of the **electrical** apparatus; and ... The **electronic control unit** 16 is provided with a light receiving conduit 18 having a photoelectric ... Further, because of the **design** of the holding magnet to permit a large pull for ...

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## Hydraulic master-slave steering system for a wide track vehicle

JD Sturgill - US Patent 4,263,979, 1981 - Google Patents

... steering motors 61, 63 and 65 is thus indirectly controlled by the **electronic control unit** 70 as ...  
The motor 65 102 is controlled by the operator and is the **master** or controlling motor ... Conversely, the motors 104, 106, and 108 are **slave** steering motors for coordinating the steering ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

## Electronic interface associative with an **electronic control unit** for an automatic ...

A Brundisini - US Patent 6,259,970, 2001 - Google Patents

... storing programming parameters 9. The electronic interface according to claim 8, further stores for the **electronic control unit**, that are ... and said at least one communication channel to configure the electronic interface as **master** or as ... **slave** in a connection of a plurality of interfaces to a 14 ...

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## [PDF] How to make steer-by-wire feel like power steering

[ntnu.no](#) [PDF]

D Odenthal, T Bünte, HD Heitzer, C Eicker, ... - Proc. 15th IFAC World ..., 2002 - nt.ntnu.no

... is the **output** of the power steering **electronic control unit** (ECU) or the control valve characteristics of the hydraulic system ... A bilateral teleoperation system consists of five interacting subsystems: a) human operator, b) **master** manipulator, c) controller, d) **slave** manipulator and ...

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## Method for engine control

DM Letang, DJ Babcock, SM Weisman... - US Patent 5,483,927, 1996 - Google Patents

... practice utilizes electronic control units having volatile and nonvolatile memory, **input** and **output** ... A particular **electronic control unit** communicates with a plethora of sensors, actuators, and other electronic ... little or no communication among themselves or with a **master** controller. ...

[Cited by 54](#) - [Related articles](#) - [All 6 versions](#)

## Control unit for an irrigation system

A Brundisini - US Patent 6,240,336, 2001 - Google Patents

... The a programmable **electronic control unit** having a plurality of microprocessor 12 drives the

display 5, and is connected to **output** control lines for the control of actuators of the the keyboard 6 and to the ... Each control unit can be made to operate as a "master" or as a "slave". ...

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### HVAC control system for a multizoned vehicle

MJ Tao, RP Bertalan, SL Baker - US Patent 6,460,356, 2002 - Google Patents

... The processing unit 112 receives user **input** from the cab control head 32 through ... 26 and related components, the construction and operation of the sleeper zone **electronic control unit** 28 is ... toggle control 128, a vehicle zone selection control 130, a **master/slave** toggle control ...

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... controller-assisted, manually shifted, synchronized, **input** splitter-type compound ...

TA Genise, PJ Mason, TR Bockelmann - US Patent 6,105,449, 2000 - Google Patents

... The auxiliary sections most often were shifted by a **slave** actuator, usually pneumatically ... in response to manual operation of one or more **master** switches. ... Fully or partially automated transmission systems wherein a microprocessor-based **electronic control unit** (ECU) receives ...

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### Electronic control device for a valve range of modular design

K Stoll, T Lederer, D Ruckwied - US Patent 5,519,636, 1996 - Google Patents

... 1 a central **electronic control unit** 10 is designed in ... several valve ranges, connected together via the field bus 11, a control unit 10 would operate as a **master** unit with ... In a now arrangement on one side three **input** and/or **output** modules 14 through 16 are joined with this control ...

[Cited by 2 - Related articles - All 2 versions](#)

### Electronic control apparatus for failure diagnosis

T Sekido, T Iwasaki... - US Patent 5,583,770, 1996 - Google Patents

... 3) correspond to the informing means; and the microcomputer of the **electronic control unit** 8 and the step ... system is composed of a **master** stations 100 and a plurality of **slave** stations 200 ... The **master** station 100 disposed in a central console of an automotive vehicle is provided ...

[Cited by 2 - Related articles - All 2 versions](#)

### Electronics for He-Ne-I stabilized laser with digital control

J Lazar, O Aip - Review of Scientific Instruments, 1997 - link.aip.org

... The main aim of the design of a new **electronic control unit** was the attainment of a better noise suppression, higher reliability and better user comfort during operation. ... The communication protocol is a **master-slave** type(Fig. ) where the PC computer is used as a **master**. ...

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H Kopetz - 1997 - books.google.com

... Tolerance 119 Overview 119 6.1 Failures, Errors, and Faults 120 6.2 Error Detection 126 6.3

A Node as a **Unit** of Failure ... for Field Bus Applications 185 Points to Remember 188 Bibliographic

Notes 190 Review Questions and Problems 190 Chapter 9: Input/Output 193 Overview ...

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[151.100.37.12](#) [PDF]

A Fumagalli - IEEE Communications Magazine, 2001 - 151.100.37.12

... technology offers a practical way to exploit the bandwidth of fiber optics, by **partitioning** the optical ...

the per-slot processing of the PSR node alleviates the burden on the **electronic control** by a ... the

bufferless case ( $dl = 0$ ) and some theoretical bounds [6]. An SDL **unit** with only five ...

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[\[CITATION\] Programming and customizing the AVR microcontroller](#)

DV Gadre - 2000 - McGraw-Hill/TAB Electronics

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[\[PDF\] Synchronization and communication results in safety-critical real-time ...](#)

[psu.edu](#) [PDF]

H Lönn - Doktorsavhandlingar vid Chalmers Tekniska Högskola, 1999 - Citeseer

... has the same purpose as its centralized counterpart, namely to get **input** from the ... However, the

**partitioning** into several cooperating computers means that these units can be placed close ...

although replicated and fault tolerant, control computer, all functions rely on the same **unit** ...

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[\[PDF\] Data Communication Systems in Nuclear Power Plants](#)

[ntnu.no](#) [PDF]

GG Preckshot, RH Wyman - ... Livermore Nat. Lab., Livermore, CA, Tech. ..., 1993 - [itk.ntnu.no](#)

... Examples include Ethernet, the IEEE 802 networks, various proprietary "multi-drop" networks, and FDDI. A "deterministic" communication system delivers messages within a **finite**, predictable time delay that is a function of system communication load. ...

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## Robust shape control of flexible structures using strain-measurement-gauges and ...

M Enzmann, C Linz, T Theis - ... and Robotics, Harrogate, UK, 6-8 ..., 1998 - books.google.com

... The **finite** element results for the natural bending frequencies showed good agreement with analytical ones (Table ... An active control system increases the sound power transmitted through the double panel **partition**. ... LX, Ly dimensions in X-and Y-direction m'mass per **unit** area p ...

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## CUBE (Computer Use By Engineers) symposium abstracts

JJ Ruminer - CUBE symposium abstracts, 1978 - [osti.gov](#)

... •. allows the memory **partitioning** as well as easily changing colors ... It accepts meshes generated by several LLL **finite** element mesh aenerators (eg, ZONE). ... computer simulation may be used to identify desirable features of a storage **unit** and estimate their value to a utility. ...

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## [BOOK] Photonic slot routing in optical transport networks

G Wedzinga - 2002 - [books.google.com](#)

... in the same time slot (termed a photonic slot) are treated as a single **unit**, and jointly ... WDM **partitions** the op- tical bandwidth into independent parallel channels, each at a different wave- length ... First, since the number of wavelengths and links in a network is **finite**, generally not all ...

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## Process control configuration system with parameterized objects

PS SCHEME - Transfer, 1978 - [freepatentsonline.com](#)

... January, 1988 - 4719593 Logically transportable microprocessor interface control **unit** permitting bus ... September, 1995 - 5452201 Flexible multi-platform **partitioning** for computer applications Butterworth et al. ... February, 2000 - 6026352 **Electronic control** system and method ...

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## Control tensioner device for an engine

N Korenjak, H Kussel, J Holzleitner - US Patent App. 09/794,239, 2001 - Google Patents

... These engines have the advantage that their emissions **output** are generally desirably lower as compared to a two-cycle engine for a given power **output**. ... Furthermore, the crankcase 10 is formed with vertical **partitions**, as shown in FIGS. ...

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H Lönn - Doktorsavhandlingar vid Chalmers Tekniska Hogskola, 1999 - Citeseer

... A distributed control system has the same purpose as its centralized counterpart, namely to get **input** from the environment through its sensors and give **output** to the controlled object using its actuators; it also has the same requirements. However, the **partitioning** into several ...

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## Four stroke engine having flexible arrangement

G Ohmberger, N Korenjak, A Wolfsgruber, ... - US Patent App. 09/ ..., 2001 - Google Patents

... These engines have the advantage that their emissions **output** are generally desirably lower as compared to a two-cycle engine for a given power **output**. ... Furthermore, the crankcase 10 is formed with vertical **partitions**, as shown in FIGS. ...

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## Four stroke engine having blow-by ventilation system and lubrication system

R Tscherne, A Wolfsgruber, R ... - US Patent App. 09/ ..., 2001 - Google Patents

... When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. With concern ...

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## Four stroke engine having a supercharger

M Sonnleitner, N Korenjak, M ... - US Patent App. 09/ ..., 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other

generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. ...

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### Four stroke engine having power take off assembly

M Aichinger, R Tscheine, A Wolfsgruber, M ... - US Patent App. 09/..., 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. ...

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### Four stroke engine with intake manifold

A Bliek, A Wolfsgruber, M Hochmayr - US Patent App. 09/794,237, 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. ...

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### Four stroke engine with cooling system

R Tscheine, A Wolfsgruber - US Patent App. 09/794,219, 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. ...

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[... verification of safety critical software for a brake-by-wire system with synchronous ...](#)[psu.edu \[PDF\]](#)

M Gunzert, A Nägele - International Symposium on ..., 1999 - doi.ieeecomputersociety.org

... This architecture has been integrated in a prototype car at DaimlerChrysler Research. ... The system architecture consists of a set of two redundant **electronic control** units (ECU) for ... functions powerful specialized tools like Matlab/Simulink or MatrixX providing **simulation** and code ...[Cited by 23 - Related articles - All 11 versions](#)[... -effective hardware-in-the-loop \*\*simulation\*\* platform for \*\*automotive\*\* engine control ...](#)

W Lee, M Yoon, M Sunwoo - ..., Part D: Journal of Automobile ..., 2002 - Prof Eng Publishing

... 1999, pp. 569–574. 5 Kendall, IR and Jones, RP An investigation into the use of hardware-in-the-loop **simulation** testing for **auto-** motive **electronic control** systems.[Control Engng Practice, 1999, 7, 1343–1356. 6 Linjama ...](#)[Cited by 7 - Related articles - \[BL Direct\]\(#\) - All 3 versions](#)[\[PDF\] \*\*Automotive\*\* engine control and hybrid systems: Challenges and ...](#)[berkeley.edu \[PDF\]](#)

A Balluchi, L Benvenuti, MD Di ... - ... of the IEEE, 2000 - embedded.eecs.berkeley.edu

... car- ried out using a mix of heuristic techniques validated by **simulation** and prototyping ... attention to specifica- tions related to force requests in the longitudinal motion of the car. ... they are often obscured by considerations involving the implementation of the **electronic** subsystem. ...[Cited by 134 - Related articles - \[View as HTML\]\(#\) - \[BL Direct\]\(#\) - All 18 versions](#)[Hardware-software codesign of embedded systems](#)[psu.edu \[PDF\]](#)

M Chiodo, P Giusto, A Jurecska, HC Hsieh, ... - IEEE ..., 1994 - doi.ieeecomputersociety.org

... In virtually all vehicles man- ufactured since the mid 1980s, an **electronic** device-the engine ... Designers can use **simulation** to comple- ment verification, thus quickly ruling out special cases that ... This article does not address directly the issue of **auto-** mated partitioning; rather it ...[Cited by 217 - Related articles - \[BL Direct\]\(#\) - All 15 versions](#)[Hybrid control in \*\*automotive\*\* applications](#)[berkeley.edu \[PS\]](#)

A Balluchi, MD Di Benedetto, C Pinello, A ... - ... systems, control, ..., 1999 - books.google.com

... To support precise specifications, a **simulation** environment together with an engineering

spreadsheet tool is highly ... a set of operations to the programmable components of the **electronic architecture** ... Hybrid Control in Automotive Applications 459 Y< k) r< IO <\*» Kk), - " r^ 7 i z ...

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J Mauss, V May, M Tatar - Workshop on Knowledge-Based Systems for ..., 2000 - Citeseer

... available services allow to visualize and compare faulty and normal **simulation** results, to ...

applications of MDS dealt with automating the workshop troubleshooting of car electric-**electronic** ...

ABS) model is shown in Figure 2. Wires connect the ABS **electronic control unit** (ECU) via ...

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... controllers to compute **control** signals based on the command, eg, engine management **electronic**

**control unit** (ECU) and ... Based on the input values, the **simulation** model generates the following

output values: • number ... 2. JUNE 1999 0 **Auto/manual** s/w 1 Brake sto 2 **Auto cruise** ...

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T Ringler - Lecture notes in computer science, 2000 - Springer

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F Pétrot, D Hommair, A Greiner - Annual Simulation ..., 1997 - doi.ieeecomputersociety.org

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A Balboni, W Fornaciari, D Sciuto - Design Automation for Embedded ..., 1996 - Springer

... competition with the EDA (**Electronic** Design Automation) tools composing the ESDA (**Electronic** System Design ... software needs to be considered at a lower level, to carefully **control** time delay ... solution provides the possibility of achieving a fully VHDL based co-**simulation** of each ...Cited by 34 - Related articles - All 3 versionsA methodology for control-dominated systems codesign

S Antoniazzi, A Balboni, W Fornaciari, D ... - Proceedings of the 3rd ..., 1994 - portal.acm.org

... see [8], [9]. A commercial environment (SPeeDCHART by Speed **Electronic**) has been ... Finally, the SPeeDCHART environment also allows system validation by **simulation**, including visual ...Zero-flagged counter variables with decrement **control**, introduced by transformation d ...Cited by 30 - Related articles - All 4 versionsSome computer organizations and their effectiveness

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... 7090 an allocation algorithm to access or modify the memory itself haas a trivial **control** tree. ...**Partitions** are defined on physical resources which two considerations: 1) the latency for interstream com- ... and tii is the minimum entry for a row) is entered for the "data" **unit** should be ...Cited by 1124 - Related articles - All 3 versionsBuilt-in self-test of the Macrolan chip

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... For each test style, we set a maximum limit of 220 patterns to hold down the test time and the

cost of the fault-free **simulation** to determine the signatures. ... This is particularly hard to accomplish for **control** logic, which tends to be irregular in nature. ... Figure 4. Testable unit. ...

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HR Carleton, JQ Broughton - US Patent 4,855,903, 1989 - Google Patents  
... "Design and **Simulation** of an ... BACKGROUND OF THE INVENTION The invention pertains to **electronic** computers. ... 4,855,903 5 6 such intra-partition processing to either other dedicated **control** of a synchronizer and a **master** processor and a processors or to a **master**-controller ...

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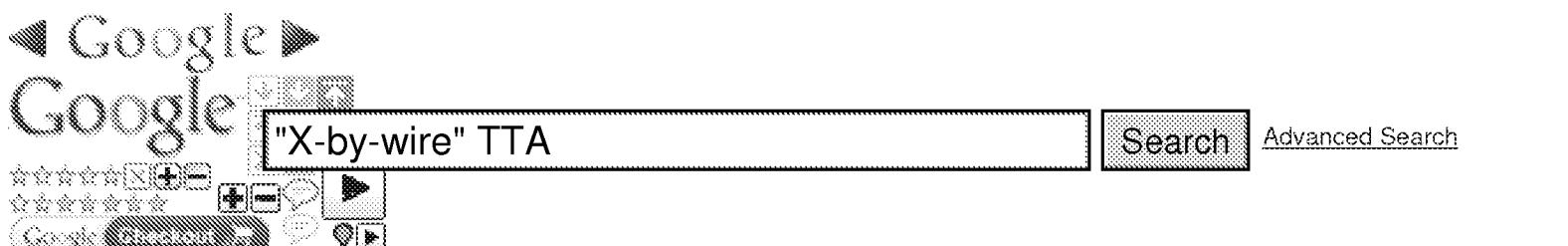
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